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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/637,400	08/11/2000	Venkataraman Ramanathan	204861	7300
23460	7590 08/09/2004		EXAMINER	
	OIT & MAYER, LTD ENTIAL PLAZA, SUITE	4900	· EL CHANTI, HUSSEIN A	
180 NORTH STETSON AVENUE			ART UNIT	PAPER NUMBER
CHICAGO,	IL 60601-6780		2157	

DATE MAILED: 08/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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. /	Application	No.	Applicant(s)	9			
	09/637,400	1	RAMANATHAN ET	AL.			
Office Action Summary	Examiner		Art Unit				
	Hussein A E		2157				
The MAILING DATE of this communicat Period for Reply	ion appears on the o	cover sheet with	the correspondence add	iress			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA  - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communic  - If the period for reply specified above is less than thirty (30) da  - If NO period for reply is specified above, the maximum statuto  - Failure to reply within the set or extended period for reply will,  Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no eventiation. 19s, a reply within the statutory period will apply and will the statute. cause the applic	t, however, may a report minimum of thirty expire SIX (6) MONTI ation to become ABA	ly be timely filed (30) days will be considered timely HS from the mailing date of this co NDONED (35 U.S.C. § 133).	mmunication.			
Status							
1) Responsive to communication(s) filed of	on <u>25 June 2004</u> .						
	2b)⊠ This action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-23 is/are pending in the app 4a) Of the above claim(s) is/are v 5) Claim(s) is/are allowed. 6) Claim(s) 1-23 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restrictio  Application Papers	withdrawn from con: n and/or election re						
9) The specification is objected to by the E	xaminer.	ohierted to h	v the Examiner				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to be	e correction is require	d if the drawing(	s) is objected to. See 37 CF	FR 1.121(d). O-152.			
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for a) All b) Some * c) None of:  1. Certified copies of the priority do  2. Certified copies of the priority do  3. Copies of the certified copies of application from the Internationa  * See the attached detailed Office action for	ocuments have beer ocuments have beer the priority docume al Bureau (PCT Rule	n received. n received in Ap nts have been e 17.2(a)).	oplication No received in this National	Stage			
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTC 3) Information Disclosure Statement(s) (PTO-1449 or PT Paper No(s)/Mail Date	0-948) **O/SB/08)	Paper No(s	ummary (PTO-413) )/Mail Date formal Patent Application (PT0 	O-152)			

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#### **DETAILED ACTION**

This action is responsive to after final amendment received on June 25,
 Claims 1-23 are pending examination.

## Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 22 and 23 are rejected under 35 U.S.C. 101 because both claims do not have any practical use. The claims only list a set of instructions that are saved on a computer readable medium with no function or use.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 5, 6, 15 and 16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The set of instructions listed in the above mentioned claims do not appear to have a data structure format as commonly known by one of the ordinary skill in the art.

Claims 5, 6, 15 and 16 are dependent on claim 1 which is a method claim.

Claims 5, 6, 15 and 16 do not teach a method or a step in a method and therefore does not further limit the claim.

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### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Coile et al, U.S. Patent No. 6,298,380 (referred to hereafter as Coile).

As to claims 1, 11, and 18, Coile discloses a system and method for improving resource utilization in a TCP/IP connection management system that teaches:

- closing a TCP/IP connection to create a timed-wait state (see col. 13 lines 50-62)
- excluding information from the TCB not required to identify the client connection to form a timed-wait state TCB for a time wait period (see col. 13 lines 15-col. 14 lines 18); and
- releasing of memory containing the information required to service the client connection (see col. 15 lines 61-col. 16 lines 17).

Coile does not explicitly teach a timed wait. However Coile teaches a method where the connection waits until the client has acknowledged all the received packets (see col. 13). It would have been obvious for one of the ordinary skill in the art at the time of the invention to modify Coile by using a

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timed wait because doing so would result in the same function which is to wait until all the received packets were acknowledged by the client.

As to claims 2, 12, and 19 Coile further teaches the step of excluding comprises the step of copying the information required to identify the client connection to form the TWTCB (see col. 13 lines 35-col. 14 lines 18).

As to claim 3 and 20, Coile further teaches releasing the memory includes the step of releasing the TCB required to identify the client connection (see col. 15 lines 61-col. 16 lines 17).

As to claim 4, Coile further teaches maintaining a minimum of information necessary to avoid late-routed packets forming new connections on the server (see col. 15 lines 61-col. 16 lines 17).

As to claims 5-10, 13-16 and 21, Coile et al further teaches excluding information not required to identify the client connection comprises the step of forming a TWTCB that occupies less memory than the, TCB (column 9, lines 5-12). The smaller connection object described by Coile et al is equivalent to the TIMED WAIT transmission control blocks described by the claims, and could be coded as described by claims 5, 6, 15, 16, 22, or 23 by anyone of ordinary skill in the art. These coded structures yield the smaller sized TWTCBs claimed in claims 8, 9, 10, 13, 14, and 21, as described in the specification. Therefore, these TWTCBs fall within the scope of Coile et al's smaller connection object.

As to claim 17, Coile teaches the method of claim 11 wherein the step of forming a TWTCB comprises the step of copying a portion of the information of

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the TCB, the portion of information being insufficient to service the TCP/IP connection (see col. 13 lines 15-col. 14 lines 18).

- **5.** Applicant's arguments with respect to the pending claims have been considered but are moot in view of the new grounds of rejection.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hussein A El-chanti whose telephone number is (703)305-4652. The examiner can normally be reached on Mon-Fri 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (703)308-7562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 30, 2004

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100